#### **Earth Science**

# Fluid Lensing Airborne and Spaceborne Imager for Earth Science Applications



Completed Technology Project (2014 - 2015)

#### **Project Introduction**

Build two 1.5 U-Class sized imaging units (FluidCams) to meet the unique high-bandwidth requirements for 3D imaging at high-resolution with Fluid Lensing. Demonstrate FluidCam on an octocopter-based UAV to create a 3D map of a coral reef underwater and terrestrial target at sub cm-scale resolution. Advance the FluidCam technology to be compatible with a 6 U-Class for future remote sensing from Low Earth Orbit (LEO).

#### **Primary U.S. Work Locations and Key Partners**



Organizations Performing Work	Role	Туре	Location
★NASA	Lead	NASA	Washington,
Headquarters(HQ)	Organization	Center	District of Columbia
Ames Research Center(ARC)	Supporting	NASA	Moffett Field,
	Organization	Center	California

#### **Primary U.S. Work Locations**

California



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### Organizational Responsibility

## Responsible Mission Directorate:

Science Mission Directorate (SMD)

#### Lead Center / Facility:

NASA Headquarters (HQ)

#### **Responsible Program:**

Earth Science



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### **Project Management**

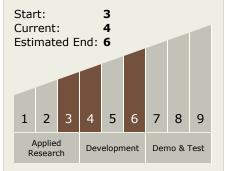
#### **Program Director:**

George J Komar

#### **Principal Investigator:**

Ved Chirayath

# Technology Maturity (TRL)



### **Technology Areas**

#### **Primary:**

- TX08 Sensors and Instruments
  - ☐ TX08.1 Remote Sensing Instruments/Sensors
    - ☐ TX08.1.1 Detectors and Focal Planes

## **Target Destination**

Earth

